



Cisco

C9300L-24UXG-4X-A

Datasheet



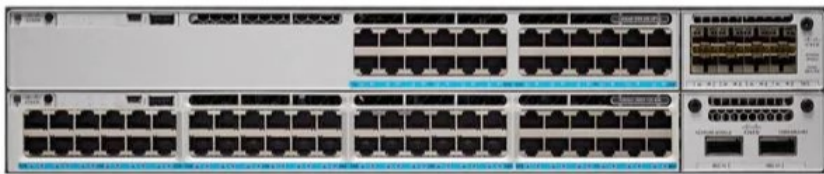
Product Overview

- Cisco Catalyst 9300 Series sets the standard for stackable enterprise switches, delivering robust, scalable networking.
- Targeted at enterprises of all sizes, this switch supports hybrid workplaces with diverse endpoint and cloud application demands.
- It features up to 1TB stacking bandwidth, multiple flexible uplinks, and a high density of Multigigabit and 90W UPoE+ ports.
- Advanced security, mixed stacking with backward compatibility, and built-in hardware-based 100G IPsec set it apart.
- Cloud and on-premises management options offer deployment flexibility for any IT environment.
- Ideal for organizations needing future-ready infrastructure, it enables secure connectivity, simplified management, and investment protection.

Product Highlights

- **End-to-End Security Fabric:** Software-Defined Access (SD-Access) enables unified policies, segmentation, and automated threat response across your network.
- **Simplified Network Operations:** Programmable architecture and unified management reduce manual configurations, freeing IT staff for innovation.
- **Flexible Cloud & On-Premises Control:** Choose Meraki dashboard cloud management or on-premises centralization for full visibility and policy consistency.
- **Future-Proof Software Licensing:** Cisco DNA and Meraki subscriptions guarantee access to updates, seamless upgrades, and scalable investment protection.

Detailed Features



C9300L-24UXG-4X-A

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Component	Specification
Switching Capacity	272 Gbps
Forwarding Rate	202.38 Mpps
Ports	24 UPoE (8x Multigigabit), 4x 10G fixed uplinks
SD-Access Support	Yes (256 Virtual Networks)
Available PoE Power	880W



High-Performance Switching Core

Built to handle heavy campus and branch traffic, the Catalyst 9300L-24UXG-4X-A delivers 272 Gbps of switching capacity and forwards up to 202.38 Mpps. It empowers businesses to support high-density wireless, converged IoT, and rich media applications without bandwidth bottlenecks.

Advanced PoE+ and Multigigabit Access

This switch offers 24 UPoE ports, including 8 Multigigabit-capable, able to power advanced devices directly over Ethernet. Its 880W available PoE budget supports large deployments of Wi-Fi 6 access points, smart building sensors, and collaboration hardware.

Robust Wired and Wireless Integration

Seamlessly integrate up to 50 wireless access points via the embedded Catalyst 9800 WLC. Unified wired and wireless policy simplifies network management and delivers uninterrupted mobility for branch offices, education, hospitality, and distributed enterprises.

Scalable, Secure Virtualization

Support for up to 256 virtual networks allows secure, flexible segmentation according to user, device, or application. Integrated SD-Access enables context-based policy, automating microsegmentation and enhancing network agility and security against internal threats.

Flexible Cloud-Ready Management

The switch operates with classic on-premises management or can be migrated to Cisco Meraki cloud dashboard for agile, centralized control. This enables seamless scaling, rapid remote troubleshooting, and granular visibility throughout network lifecycles.

Highly Resilient Hardware Design

Featuring field-replaceable redundant power supplies and fans, and Enterprise-class MTBF of 332,640 hours, the platform is engineered for mission-critical uptime and robust business continuity crucial for finance, healthcare, and production environments.

Comprehensive Routing and Analytics

Supports large routing tables (32,000 IPv4, 16,000 IPv6), advanced QoS (5,120 entries), and application hosting for ThousandEyes visibility. Integrated analytics empower IT teams to optimize performance proactively and assure application experience.

Future-Proof Investment Protection

Backward-compatible stacking and StackPower, modular software upgrades, and license portability maximize hardware lifecycle value. Customers can evolve to new standards and higher speeds without disruptive upgrades, protecting infrastructure investments.

Technical Specifications

Product Specifications

Feature	Value
Product Description	Catalyst 9300 24-port fixed uplinks UPoE, 8xmGig, 4X10G uplinks, Network Advantage
FRU Power Supply	Yes
FRU Fans	Yes
Modular Uplinks	No
Stacking Bandwidth Support	320 Gbps
Cisco StackPower	No
Catalyst 9800 Embedded WLC	Yes (50 APs)
SD-Access Support	Yes (256 Virtual Networks)
Total 10/100/1000, Multigigabit Copper or SFP Fiber	24 UPoE 8xmGig
Uplink Configuration	4x 10G fixed uplinks
Default AC Power Supply	1100W AC
Available PoE Power	880W



Feature	Value
Total Number of MAC Addresses	32,000
Total Number of IPv4 Routes	32,000 (24,000 direct, 8,000 indirect)
IPv6 Routing Entries	16,000
Multicast Routing Scale	8,000
QoS Scale Entries	5,120
ACL Scale Entries	5,120
Packet Buffer per SKU	16 MB for 24 and 48 port Gigabit Ethernet models
FNF Entries	64,000 on 24- and 48-port Gigabit Ethernet models
DRAM	8 GB
Flash	16 GB
VLAN IDs	4094
Total Switched Virtual Interfaces (SVIs)	1000
Jumbo Frames	9198 bytes
Total Routed Ports per Catalyst 9300 Series Stack	416
Switching Capacity	272 Gbps
Switching Capacity with Stacking	592 Gbps
Forwarding Rate	202.38 Mpps
Forwarding Rate with Stacking	440.47 Mpps
Dimensions (H x W x D) cm	Chassis only: 4.4 x 44.5 x 40.9
Dimensions with Default Power Supply (H x W x D) cm	4.4 x 44.5 x 48.8
Mean Time Between Failures (MTBF) hours	332,640

Product Comparison

Feature	C9300L-24UXG-4X-A	C9300-24T-E	C9300L-48PF-4G-A
Ports	24 UPoE (8x Multigigabit), 4x 10G fixed uplinks	24 x 1G Base-T, 4 x 1G SFP	48 PoE+, 4x 1G SFP uplinks
Switching Capacity	272 Gbps	128 Gbps	104 Gbps
Forwarding Rate	202.38 Mpps	95 Mpps	77.38 Mpps



Feature	C9300L-24UXG-4X-A	C9300-24T-E	C9300L-48PF-4G-A
Available PoE Power	880W	445W	740W
Stacking Bandwidth	320 Gbps	480 Gbps	80 Gbps
Management	On-premises, Meraki cloud	On-premises	On-premises, Meraki cloud
SD-Access Support	Yes (256 VN)	Yes (256 VN)	Yes (256 VN)
Wireless Controller Integration	Yes (50 APs)	Yes (200 APs)	Yes (100 APs)
MTBF	332,640 hrs	338,430 hrs	288,690 hrs

Accessories

Category	Accessories
Included Accessories	- Power Supply Unit - Rack Mount Kit - Console Cable
Optional Accessories	- SFP+ Transceiver Modules - Redundant Power Supply - Stacking Cable



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References

[1] Cisco. (2023). Catalyst 9300 Series Switches Datasheet (V1.0). Retrieved from <https://www.cisco.com/c/en/us/products/collateral/switches/catalyst-9300-series-switches/nb-06-cat9300-ser-data-sheet-cte-en.html>